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Joint Precision Strike Demonstration

Desert Storm

1992
Day/Night

Improve and Demonstrate (AΩ) Sensor to Shooter Capability to Locate / Destroy High Values Short Dwell (SCUD) and Assess BDA

$3M

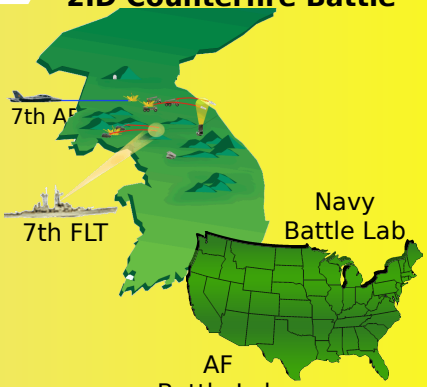
1992-1994
Army S&T Acquisition

- JSTARS/ATACMS
- UAV Demo
- Surface to Surface Demo (ER-ATACMS)
- IEC Operational

$10M

1995-1997
Army Operational Forces

CMRL ACTD
2ID Counterfire Battle



RTV ACTD

$100M

1998-2005
War Fighting CINCs

$300M

Joint Precision Strike Demonstration
Support to the Warfighter

Improve Capability to Plan and Direct Theater Counterfire and Precision Engagement

"Provides CINC Situational Awareness…Ability to Focus Theater's Warfighting Pote

Gen Tilelli CINCUNC

Rapidly Generate Digital Terrain Data to Support Emerging Crisis Contingencies

"Battlefield Visualization Will Prove Essential to Our Planning, Rehearsing, and Executing Milit

LTG Keane CG XVIII ABC

Bridge Gap in Sensor Data Between Operational and Tactical Forces Through Rapid Access to ISR Data and Products

"Integration of Multi Service, Multi Echelon ISR and Operational Data, Combined With JISR's Enhanced Visuals Will Provide Value Added Capa Forces."

Gen Zinni CINCENT

Provide JTF Commander Capability to Focus His Joint and Coalition Strike Assets to Strike/destroy TSSTs

"The Ability to Execute Joint/Combined Near Real Time…Is Critical to Successful Oper

Gen Jamerson DCINC

Overall Joint Precision Strike Demonstration Program Schedule

IEW&S PROGRAM EXECUTIVE OFFICE

JOINT PRECISION STRIKE DEMONSTRATION PROJECT OFFICE

FY94 FY95 FY96 FY97 FY98 FY99 FY00 FY01 FY02 FY03 FY04 FY05 FY06 FY07 FY08

Surface to Surface Demo
- Successful Demo ER-ATAMCS

Precision/Rapid Counter/MRL (CMRL) ACT
- Improved Div. Ability to Destroy240/170s by 200%
- Introduced Counterfire COP

Joint Intelligence Surveillance and Reconnaissance (JISR) ACTD
- Allow Early Entry Force and JTF Commanders to Rapidly Access Data/Products, Visualize Battlespace and Make Correct Decisions

Theater Precision Strike Operations (TPSO) ACTD
- Improved Capability to Plan/Execute Theater Counterfire/PS Operations
- Provided Theater Common Operating Picture
- Co-Hosted ADOCS on GCCS-A
- Established DOCC Baseline TTPs

V Corps
- TPSO / JCSE Functionality

Rapid Terrain Visualization (RTV) ACTD
- Generate Digital Topographic Data
  - -20km by 20km - 18 Hrs
  - -90km by 90km - 72 Hrs
  - -300km by 300km - 12 Days
- S/W Used by TOPO Units, XVIII + III Corps

ISPE ACTD

Tactical Mapper ACTD

MASINT ACTD

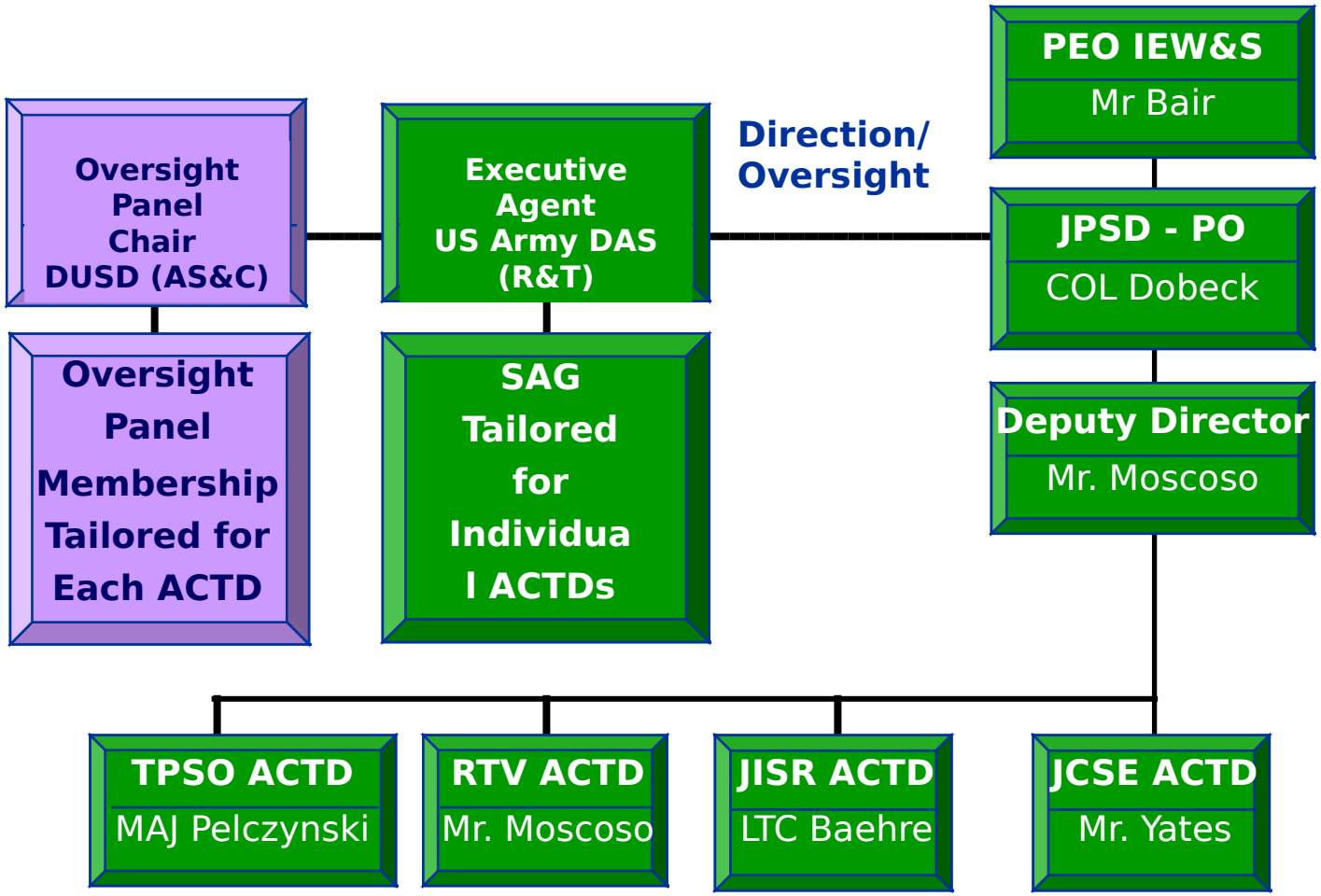
Modeling and Simulation Based Acquisition

Joint Continuous Strike Environment (JCSE) ACTD
- Focus Joint and Coalition Strike Assets to Execute Attack Against TSSTs

Precision Strike Functions

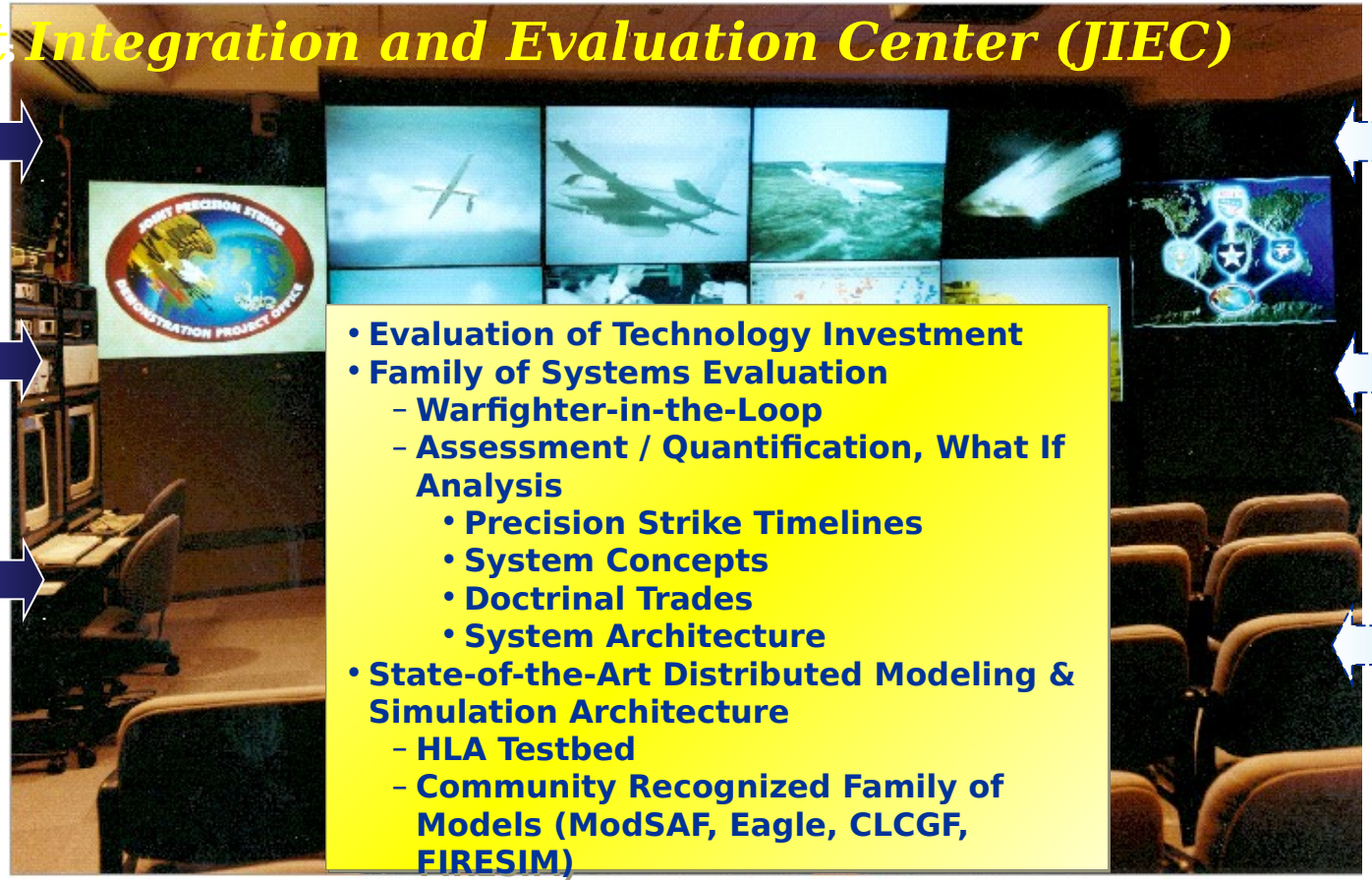
Surveillance	Target Acquisition	Strike Planning	Strike Execution	BDA
S to S Demo	JISR ACTD	CMRL ACTD	CMRL ACTD	JISR ACTD
CMRL ACTD	TPSO ACTD	TPSO ACTD	TPSO ACTD	TPSO ACTD
RTV ACTD	RTV ACTD	JCSE ACTD	JCSE ACTD	RTV ACTD
MASINT ACTD	MASINT ACTD	ISPE ACTD	ISPE ACTD	Tactical Mapper ACTD
Tactical Mapper ACTD	Tactical Mapper ACTD	V Corps	V Corps	
		RTV ACTD		

Joint Precision Strike Demonstration
ACTD Management Structure



Integration and Evaluation Center
JPSD "Window to the World"

Joint Integration and Evaluation Center (JIEC)



CMRL

RTV

TPSO

JCSE

JISR

ACS

FCS

- Evaluation of Technology Investment
- Family of Systems Evaluation
  - Warfighter-in-the-Loop
  - Assessment / Quantification, What If Analysis
    - Precision Strike Timelines
    - System Concepts
    - Doctrinal Trades
    - System Architecture
- State-of-the-Art Distributed Modeling & Simulation Architecture
  - HLA Testbed
  - Community Recognized Family of Models (ModSAF, Eagle, CLCGF, FIRESIM)
- JPSD "Window to the World" Visualization

Studies & Analysis

nK Architecture Study
Navy Counterfire MBC
Counterfire DARPA

- ACS
- Other Technology Investments

Simulation Based Acquisition

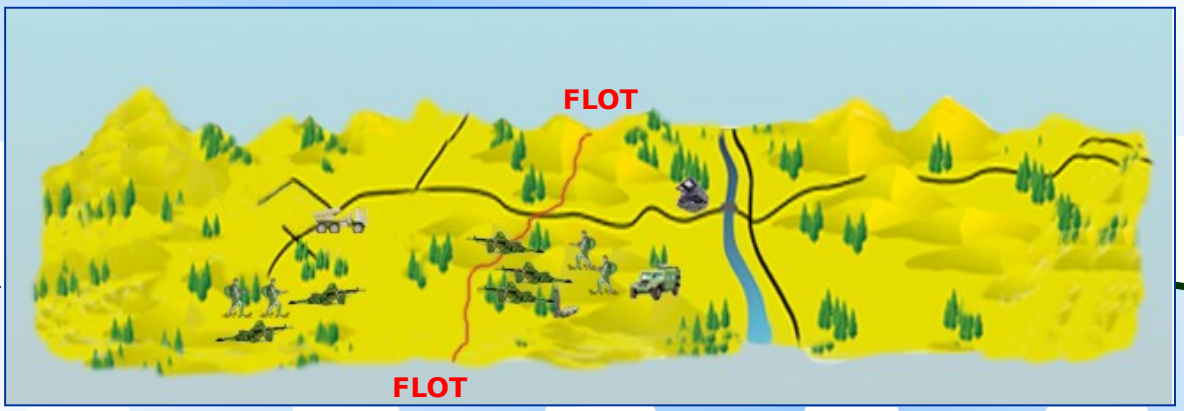
Joint Precision Strike Demonstration
Virtual C4I Sand Table

Scenario/Simulation
- MODSAF
- EAD SIM
- FIRE SIM
- EAGLE

Sensor Mode
- UAV
- JSTARS
- NAR SIN

C4 System Models
- Tactical Comm
- ASAS
- TBMCS
- GCCS-M
- IAS

Tactical land
Simulation LAN (DIS/HLA)



RTV XVIII ABC Test Bed

TPSO (USFK) Test Bed

Navy Battle Lab	Air Force Battle Lab	JBC	Army Battle Labs	USMC Battle Lab
Newport / APL	C2TIC	JFCOM	D&SABL	Quantico